

### Amendments to the Claims

Claim 1 (Previously presented): Seed of hybrid maize variety designated 34B97, representative seed of said variety having been deposited under ATCC Accession number PTA-5459.

Claim 2 (Previously presented): A maize plant, or a part thereof, produced by growing the seed of claim 1.

Claim 3 (Original): Pollen of the plant of claim 2.

Claim 4 (Original): An ovule of the plant of claim 2.

Claims 5-66 (Canceled)

Claim 67 (Previously presented): A tissue culture of regenerable cells produced from the plant of claim 2.

Claim 68 (Previously presented): Protoplasts produced from the tissue culture of claim 67.

Claim 69 (Previously presented): The tissue culture of claim 67, wherein cells of the tissue culture are from a tissue selected from the group consisting of leaf, pollen, embryo, root, root tip, anther, silk, flower, kernel, ear, cob, husk and stalk.

Claim 70 (Previously presented): A maize plant regenerated from the tissue culture of claim 67, said plant having all the morphological and physiological characteristics of hybrid maize plant 34B97, representative seed of said plant having been deposited under ATCC Accession No. PTA-5459.

Claim 71 (Previously presented): A method for producing an F1 hybrid maize seed, comprising crossing the plant of claim 2 with a different maize plant and harvesting the resultant F1 hybrid maize seed.

Claim 72 (Previously presented): A maize plant, or a part thereof, having all the physiological and morphological characteristics of the hybrid maize plant 34B97, representative seed of said plant having been deposited under ATCC Accession No. PTA-5459.

Claim 73 (Previously presented): A method of introducing a desired trait into a hybrid maize variety 34B97 comprising:

(a) crossing at least one of inbred maize parent plants GE533003 and GE567919, representative seed of which have been deposited under ATCC Accession Nos. as PTA-5504 and PTA-5525 respectively, with another maize line that comprises a desired trait, to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;

(b) selecting said F1 progeny plants that have the desired trait to produce selected F1 progeny plants;

(c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have the desired trait and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;

(e) repeating steps (c) and (d) three or more times in succession to produce a selected fourth or higher backcross progeny plants; and

(f) crossing said fourth or higher backcross progeny plant with the other inbred maize parent plant to produce a hybrid maize variety 34B97 with the desired trait and all of the morphological and physiological characteristics of hybrid maize variety 34B97 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 74 (Previously presented): A plant produced by the method of claim 73, wherein the plant has the desired trait and all of the physiological and morphological characteristics of hybrid maize variety 34B97 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 75 (Previously presented): The plant of claim 74 wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of: imidazolinone, sulfonyleurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

Claim 76 (Previously presented): The plant of claim 74 wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

Claim 77 (Previously presented): The plant of claim 74 wherein the desired trait is male sterility and the trait is conferred by a cytoplasmic nucleic acid molecule that confers male sterility.

Claim 78 (Currently amended): A method of modifying fatty acid metabolism, phytic acid metabolism or carbohydrate metabolism in a hybrid maize variety 34B97 comprising:

(a) crossing at least one of inbred maize parent plants GE533003 and GE567919, representative seed of which have been deposited under ATCC Accession Nos. as PTA-5504 and PTA-5525 respectively, with another maize line that ~~comprises~~comprises a nucleic acid molecule[[]]encoding an enzyme selected from the group consisting of phytase, stearyl-ACP desaturase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme;

(b) selecting said F1 progeny plants that have said nucleic acid molecule to produce selected F1 progeny plants;

(c) backcrossing the selected progeny plants with said inbred maize parent plant to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have said nucleic acid molecule and morphological and physiological characteristics of said inbred maize parent plant to produce selected backcross progeny plants;

(e) repeating steps (c) and (d) three or more times in succession to produce a selected fourth or higher backcross progeny plants; and

(f) crossing said fourth or higher backcross progeny plant with the other inbred maize parent plant to produce a hybrid maize variety 34B97 that comprises said nucleic acid molecule and has all of the morphological and physiological characteristics of hybrid maize variety 34B97 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 79 (Previously presented): A plant produced by the method of claim 78, wherein the plant comprises the nucleic acid molecule and has all of the physiological and morphological characteristics of hybrid maize variety 34B97 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

Claim 80 (Previously presented): A method for producing a maize seed, comprising crossing the plant of claim 2 with itself or a different maize plant and harvesting the resultant maize seed.